

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

CLEANUP AND ABATEMENT ORDER NO. 98-728

FOR
PIRELLI TIRE CORPORATION
HANFORD TIRE PLANT
KINGS COUNTY

The California Regional Water Quality Control Board, Central Valley Region, (hereafter Board) finds that:

1. The Pirelli Tire Corporation (hereafter Discharger), a Connecticut Corporation, owns and operates a tire manufacturing plant south of Hanford in Kings County.
2. The subject facility is in the northwest quarter of Section 24 and southwest quarter of Section 13, T19S, R21E, MDB&M.
3. The Discharger disposed of domestic and industrial wastewater to a wastewater treatment facility, unlined ponds (Horn's Pond, Farmer's Pond), a concrete cooling water pond, and concrete sumps (steam cleaning, carbon black, and battery). Wastewater discharged to Farmer's Pond was used to irrigate 210 acres of agricultural land.
4. From 1968 to 1997, the Discharger operated an activated sludge wastewater treatment facility south of the tire plant. The facility received 25,500 gallons per day of industrial and domestic wastewater that was treated in an aeration chamber, digestion chamber, and settling chamber prior to discharge into Farmer's Pond.
5. Discharge of wastewater to ponds, sumps, and land was regulated under Waste Discharge Requirements (WDRs) Order No. 69-164. The Discharger completed a hookup to the City of Hanford sewer system and the WDRs were rescinded on 5 June 1998.
6. The Discharger disposed of solid wastes in landfill trenches in the southwestern section of the property. Cleanup/closure work for wastes in soils has been completed at these trenches and all of the wastes have been excavated and transported off-site for appropriate disposal.
7. Based on monitoring events from 1991 to 1993, groundwater sampling at the facility indicates benzene up to 24 µg/l (MCL of 1 µg/l), dichloroethane (DCA) up to 16 µg/l (MCL of 5 µg/l), dichloroethene (DCE) up to 42 µg/l (MCL of 6µg/l), and tetrachloroethene (PCE) up to 8.9 µg/l (MCL of 5 µg/l). All exceed their respective California Primary Maximum Contaminant Levels (MCL) for drinking water. The lateral and vertical extent of groundwater degradation has not been defined.

8. Based on sampling conducted in February 1994, discharges to Horn's Pond and Farmer's Pond have resulted in a buildup of sludge in both ponds. Sludge in the ponds contains lead (85 mg/kg), zinc (2140 mg/kg), copper (1260 mg/kg), and 30 percent Oil and Grease. Sampling conducted in February 1994 indicates volatile organic compounds (VOCs) are also present in sludge in concentrations ranging from 1 to 280 mg/kg. The sludge in the ponds is a 'designated' waste as defined in Title 27, California Code of Regulations (CCR), § 20210 and California Water Code Section 13173. Closure of these ponds will be regulated by Title 27 of the CCR.
9. The concrete cooling water pond is a likely source of wastes detected in groundwater. Solvent recovery system "noncontact" cooling water flows into this pond. Sampling of this water, conducted in 1993, indicates chloroform concentrations up to 12,000 µg/l (MCL of 100 µg/l).
10. Based on samples collected in 1993, discharges to the concrete steam cleaning sump have contained oil and grease up to 450 mg/l that poses a threat to underlying groundwater. Wastewater from the sump is pumped to a dissolved air flotation (DAF) device for pretreatment, and, as of August 1997, subsequently discharged into the municipal sewer system under permit from the City of Hanford Public Utilities Department.
11. Storm water is collected in a carbon black sump prior to being pumped into the steam cleaning sump and treated in the DAF. Based on analyses of samples collected in 1993, carbon black powder contains pyrene up to 0.7 mg/kg.
12. The battery sump receives battery wash wastewater from rinsing the exterior of lead-acid batteries. Analytical results of samples collected in August 1990 indicate lead concentrations up to 5200 µg/l (MCL of 15 µg/l).
13. A shallow unconfined aquifer system underlies the site. Depth to groundwater is approximately 40 feet below ground surface (bgs) and flow direction is to the east. Background groundwater has electrical conductivities from 400 to 1200 µmhos/cm.
14. The beneficial uses of groundwater, as described in the Water Quality Control Plan, Third Edition, for the Tulare Lake Basin, are municipal and domestic supply, agricultural supply, and industrial supply.
15. VOCs, petroleum hydrocarbons, and metals, which pollute or threaten to pollute underlying groundwater, have been discharged at several areas at the facility as described in Findings 5 through 12.
16. "Pollution" means an alteration of the quality of the waters of the state by waste to a degree which unreasonably affects either of the following:
 - (1) The waters for beneficial uses.
 - (2) Facilities which serve these beneficial uses."Pollution" may include "contamination" [California Water Code, §13050].
17. "Any person who has discharged or discharges wastes into the waters of this state in violation of any waste discharge requirements or other order or prohibition issued by a regional board or the

state board, or who has caused or permitted, causes or permits, or threatens to cause or permit any waste to be discharged or deposited where it is, or probably will be, discharged into waters of the state and creates, or threatens to create, a condition of pollution or nuisance, shall upon order of the regional board, clean up the waste or abate the effects of the waste, or, in the case of threatened pollution or nuisance, take other necessary remedial actions, including, but not limited to, overseeing cleanup and abatement efforts. Upon failure of any person to comply with such

cleanup or abatement order, the Attorney General, at the request of the Board, shall petition the superior court for that county for the issuance of an injunction requiring the person to comply with the order. In any such suit, the court shall have the jurisdiction to grant a prohibitory or mandatory injunction, either preliminary or permanent, as the facts may warrant.” [California Water Code, §13304 (a)].

18. “In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of discharging, or who proposes to discharge waste within its region, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of discharging, or who proposes to discharge, waste outside of its region that could affect the quality of waters within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of those reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports”[California Water Code, §13267 (b)(1)].
19. The Discharger has caused and threatens to cause waste to be discharged into waters of the state and, the presence of the constituents described in Findings 7 through 12 has created and threatens to create a condition of pollution or nuisance.
20. If the Discharger violates this Cleanup and Abatement Order, the Discharger may be liable civilly in a monetary amount provided by statute.
21. Pursuant to Water Code Section 13304, the Board is entitled to, and may seek, reimbursement for all reasonable costs actually incurred by the Board to investigate unauthorized discharges of waste, and to oversee cleanup of such waste, abatement of effects thereof, or other remedial action required by this Order.
22. Issuance of this Order is exempt from the provisions of the California Environmental Quality Act (Public Resource Code, Section 21000, et seq.) in accordance with Title 14, CCR, §15321 (a)(2).
23. Any person adversely affected by this action of the Board may petition the State Board to review this action. The petition must be received by the State Board within 30 days of the date on which this Cleanup and Abatement Order is issued. Copies of the law and regulations applicable to filing petitions will be provided on request.

IT IS HEREBY ORDERED that pursuant to Sections 13267 and 13304 of the California Water Code, the Discharger shall comply with the following tasks and time schedules. All work outlined below shall

be performed under the direction of a California registered civil engineer, certified engineering geologist or registered geologist to the extent appropriate under California licensing and registration acts. The Discharger shall comply with all applicable provisions of Division 2 of Title 27 of the California Code of Regulations. All plans and time schedules are subject to approval by the Executive Officer. Submitted time schedules become part of the Order once approved or revised by the Executive Officer.

<u>Tasks</u>	<u>Compliance Date</u>
1. Provide a technical report that contains a plan and time schedule to investigate, cleanup, and close the wastewater treatment facility.	15 September 1998
2. Complete cleanup/closure work required in Task 1.	In accordance with approved time schedule from Task 1.
3. Eliminate wastewater discharges to Horn's Pond .	15 September 1998
4. Eliminate wastewater discharges to Farmer's Pond.	15 September 1998
5. Provide a technical report that contains a plan and time schedule for investigation, cleanup, and closure of Horn's Pond.	1 October 1998
6. Complete work required in Task 5.	In accordance with approved time schedule from Task 5.
7. Provide a technical report that contains a plan and time schedule for investigation, cleanup, and closure of Farmer's Pond.	1 March 1999
8. Complete work required in Task 7.	In accordance with approved time schedule from Task 7.
9. Investigate and characterize the cooling pond, steam cleaning sump/DAF area, battery sump, and carbon black sump.	15 September 1998

<u>Tasks</u>	<u>Compliance Date</u>
10. Evaluate adequacy of the groundwater	1 October 1998

- | | | |
|-----|--|--|
| 11. | Provide a technical report that contains a plan and time schedule to define the lateral and vertical extent of groundwater degradation resulting from past operations. | 1 July 1999 |
| 12. | Complete work required in Task 11. | In accordance with approved time schedule from Task 11. |
| 13. | Provide a technical report that contains a plan and time schedule to contain/cleanup wastes in groundwater and conduct long-term groundwater monitoring. | 1 December 1999 |
| 14. | Implement work required in Task 13. | In accordance with approved time schedule from Task 13. |

The Discharger is hereby ordered to reimburse the Board for reasonable costs associated with oversight of the investigation and cleanup. Payment is due within 30 days of receipt of an invoice presented by the State Water Resources Control Board for such costs.

If, in the opinion of the Executive Officer, the Discharger violates this Order, the Executive Officer may apply to the Attorney General for judicial enforcement or issue a complaint for Administrative Civil Liability.

GARY M. CARLTON, Executive Officer

by: _____
LOREN J. HARLOW, Assistant Executive Officer

DATED: 14 August 1998